



A.D. 1857 N° 1630.

S P E C I F I C A T I O N

OF

ARTHUR DUNN.

PREPARING AND PACKING TOOTH POWDER.

LONDON:

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1857.



A.D. 1857 N° 1630.

Preparing and Packing Tooth Powder.

LETTERS PATENT to Arthur Dunn, of Dalston, in the County of Middlesex, Fancy Soap Manufacturer, for the Invention of “AN IMPROVEMENT IN PREPARING AND PACKING TOOTH POWDER.”

Sealed the 24th November 1857, and dated the 10th June 1857.

PROVISIONAL SPECIFICATION left by the said Arthur Dunn at the Office of the Commissioners of Patents, with his Petition, on the 10th June 1857.

I, ARTHUR DUNN, of Dalston, in the County of Middlesex, Fancy Soap
5 Manufacturer, do hereby declare the nature of the Invention for “AN IMPROVEMENT IN PREPARING AND PACKING TOOTH POWDER,” to be as follows:—

This Invention has for its object an improvement in preparing and packing tooth powder. For this purpose any preparation, or mixture of materials suitable to be used as a tooth powder, is subjected to pressure in moulds, in the
10 dry or very slightly moistened state, in order to mould the powder into forms, in place of the powder being packed in boxes, as heretofore; and such moulded and compressed forms are then wrapped or enveloped in tinfoil, or other suitable wrappers which will admit of being torn or moved away by degrees, so as to leave a portion of the end of the moulded and compressed mass
15 uncovered, in such manner that it may be rubbed on the surface of a tooth brush, or have the brush rubbed thereon; by which preparation and mode of

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packing tooth powder, the same will retain its perfume and flavor, and also the form of a moulded mass, and yet admit of a quantity being readily removed by a brush from time to time from the uncovered surface.

SPECIFICATION in pursuance of the conditions of the Letters Patent, filed by the said Arthur Dunn in the Great Seal Patent Office on the 5 10th December 1857.

TO ALL TO WHOM THESE PRESENTS SHALL COME, I, ARTHUR DUNN, of Dalston, in the County of Middlesex, Fancy Soap Manufacturer, send greeting.

WHEREAS Her most Excellent Majesty Queen Victoria, by Her Letters 10 Patent, bearing date the Tenth day of June, in the year of our Lord One thousand eight hundred and fifty-seven, in the twentieth year of Her reign, did, for Herself, Her heirs and successors, give and grant unto me, the said Arthur Dunn, Her special licence that I, the said Arthur Dunn, my executors, administrators, and assigns, or such others as I, the said Arthur 15 Dunn, my executors, administrators, and assigns, should at any time agree with, and no others, from time to time and at all times thereafter during the term therein expressed, should and lawfully might make, use, exercise, and vend, within the United Kingdom of Great Britain and Ireland, the Channel Islands, and Isle of Man, an Invention for "**AN IMPROVEMENT IN 20 PREPARING AND PACKING TOOTH POWDER**," upon the condition (amongst others) that I, the said Arthur Dunn, my executors or administrators, by an instrument in writing under my, or their, or one of their hands and seals, should particularly describe and ascertain the nature of the said Invention, and in what manner the same was to be performed, and cause the same 25 to be filed in the Great Seal Patent Office within six calendar months next and immediately after the date of the said Letters Patent.

NOW KNOW YE, that I, the said Arthur Dunn, do hereby declare the nature of the said Invention, and in what manner the same is to be performed, to be particularly described and ascertained in and by the following 30 statement thereof, that is to say:—

This Invention has for its object an improvement in preparing and packing tooth powder. For this purpose any preparation, or mixture of materials suitable to be used as a tooth powder, is subjected to pressure in moulds, in the dry or very slightly moistened state, in order to mould the powder into 35 forms, in place of the powder being packed in boxes, as heretofore; and such

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moulded and compressed forms are then wrapped or enveloped in tinfoil, or other suitable wrappers which will admit of being torn or moved away by degrees, so as to leave a portion of the end of the moulded and compressed mass uncovered, in such manner that it may be rubbed on the surface of a
5 tooth brush, or have the brush rubbed thereon; by which preparation and mode of packing tooth powder, the same will retain its perfume and flavor, and also the form of a moulded mass, and yet admit of a quantity being readily removed by a brush from time to time from the uncovered surface.

Having thus stated the nature of my said Invention, I will proceed more
10 fully to describe the manner of performing the same.

DESCRIPTION OF THE DRAWING.

Figure 1 shews the elevation of a metal mould such as used by me in carrying out my Invention; Figure 2 is a plan of the mould; Figure 3 shews a vertical section of the same; Figure 4 shews the ram, and Figure 5 the filling
15 piece introduced into at the bottom of the mould.

The making and mixing of the various descriptions of tooth powder now and heretofore used, and others which may be hereafter prepared, not constituting any part of my Invention, it will not be necessary to describe the same here.

20 My Invention, as above explained, consists in subjecting tooth powders to pressure in moulds, and covering the moulded products in tinfoil or suitable coverings which can be moved progressively as the end of the moulded article is worn away by rubbing it on a tooth brush.

I would state that, as some preparations of tooth powder, such as those
25 containing charcoal and others, do not readily cohere when subjected to pressure in moulds, in such cases I find it desirable to moisten them slightly with a small quantity of sweet oil or honey, or other material; and when using such matters with tooth powder, I use either at the rate of about four fluid ounces to eight pounds of the powder. I prefer not to use water for such
30 moistening, as the pressed product is liable to shrink and crack; otherwise water may be used. The tooth powder being prepared, and the filling piece *a* introduced into the bottom of the mould, the same is to be filled by a funnel or other convenient instrument, and I slightly ram down the powder with a wood rammer, whilst the funnel is in its place. I then remove the funnel and
35 wood rammer, and place the solid metal plug on the top of the tooth powder and slightly strike the rounded knob on the top of the ram or plug with a mallet (loaded with lead on the striking end) four or five times, and lastly give four or five good heavy blows, until the tooth powder contained in the mould

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is sufficiently compressed. I then shift the mould on the iron plate *d* until the moveable plug or filling piece *a*, at the bottom of the mould, comes over the well or hole sunk on one side of such iron plate. I then slack the screw which binds the parts of the mould together, and gently strike the rounded top of the top ram until it slightly descends in the mould, pushing with it the 5 moulded tooth powder; I then bring the mould upon the flat surface of the iron plate, remove the ram or plunger, throw the band *b* and screw *c* back, and gently strike the top surface of the mould, until the lower moveable filling piece or plug *a* again becomes flush with the iron plate, the object being to free the compressed tooth powder from the sides of the mould. I then turn 10 the mould on its side, press up the moveable plug *a* with the right hand, holding the left hand to catch the compressed powder as it falls out of the mould. The moulded tooth powder is then ready to be enveloped in tinfoil or other suitable material, which is readily performed by spreading the tin-foil (or other material, applying paste on one edge) on a sheet of glass, and 15 then rolling the moulded tooth powder therein, closing the ends of the tinfoil over the ends of the moulded powder when rolled up in such tinfoil. After each time of using the mould, I clean it out with a wet cloth, wipe it dry, screw it up, and it is ready again for use.

Having thus described the nature of my said Invention, and the manner of 20 performing the same, I would have it understood that I do not confine myself to the precise details, and the form of the mould used in carrying out my Invention may be varied; but what I claim is, the subjecting tooth powder to pressure in moulds, so that the same may be moulded into form, and coating or covering the same with tinfoil or other suitable covering, which 25 will admit of being readily removed as the moulded tooth powder is removed by being rubbed on a tooth brush.

In witness whereof, I, the said Arthur Dunn, have hereunto set my hand and seal, this Tenth day of December, in the year of our Lord One thousand eight hundred and fifty-seven.

ARTHUR DUNN. (L.S.)

Witness,

S. CARPMAEL.

LONDON :

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FIG. 2.

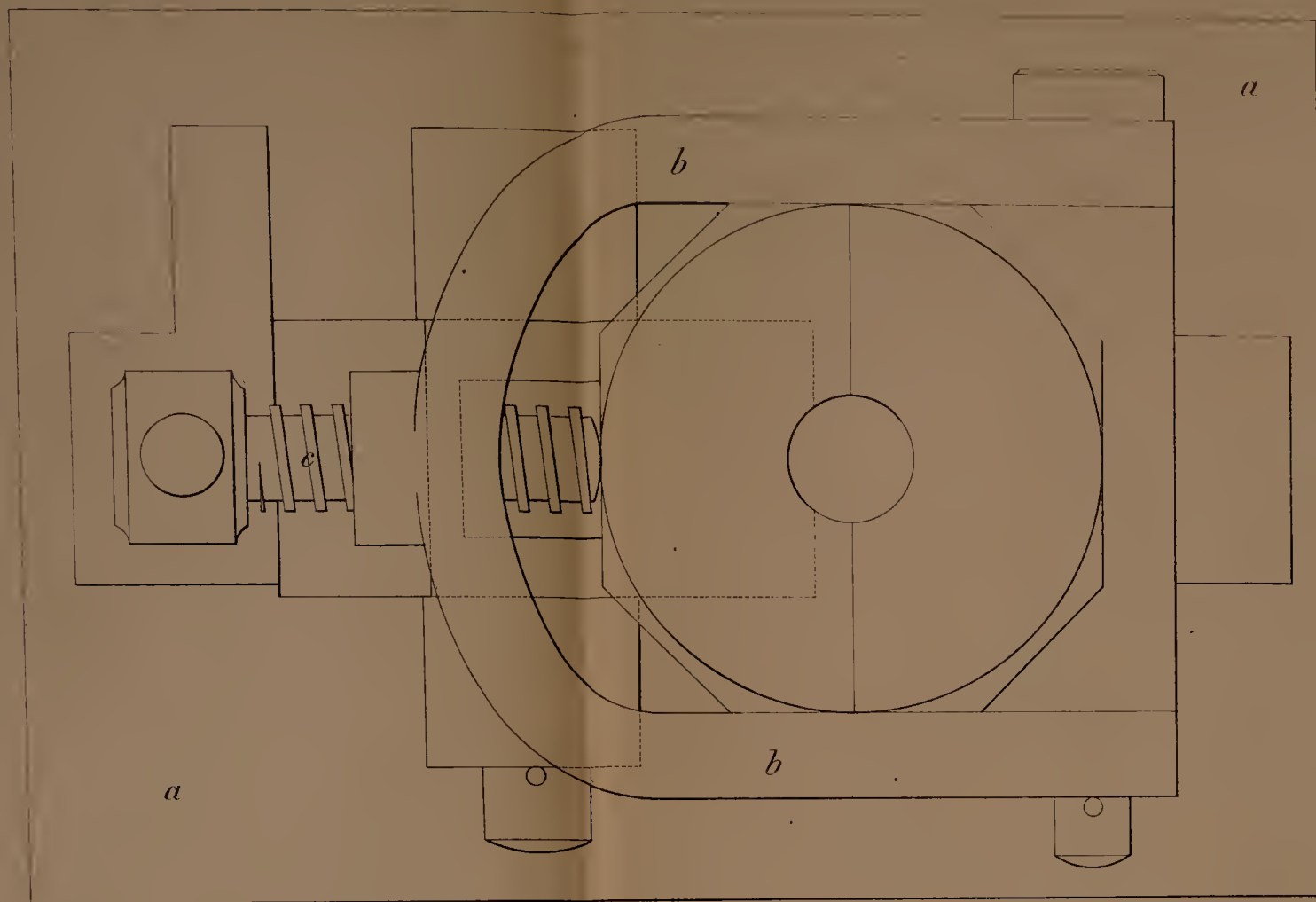


FIG. 1.

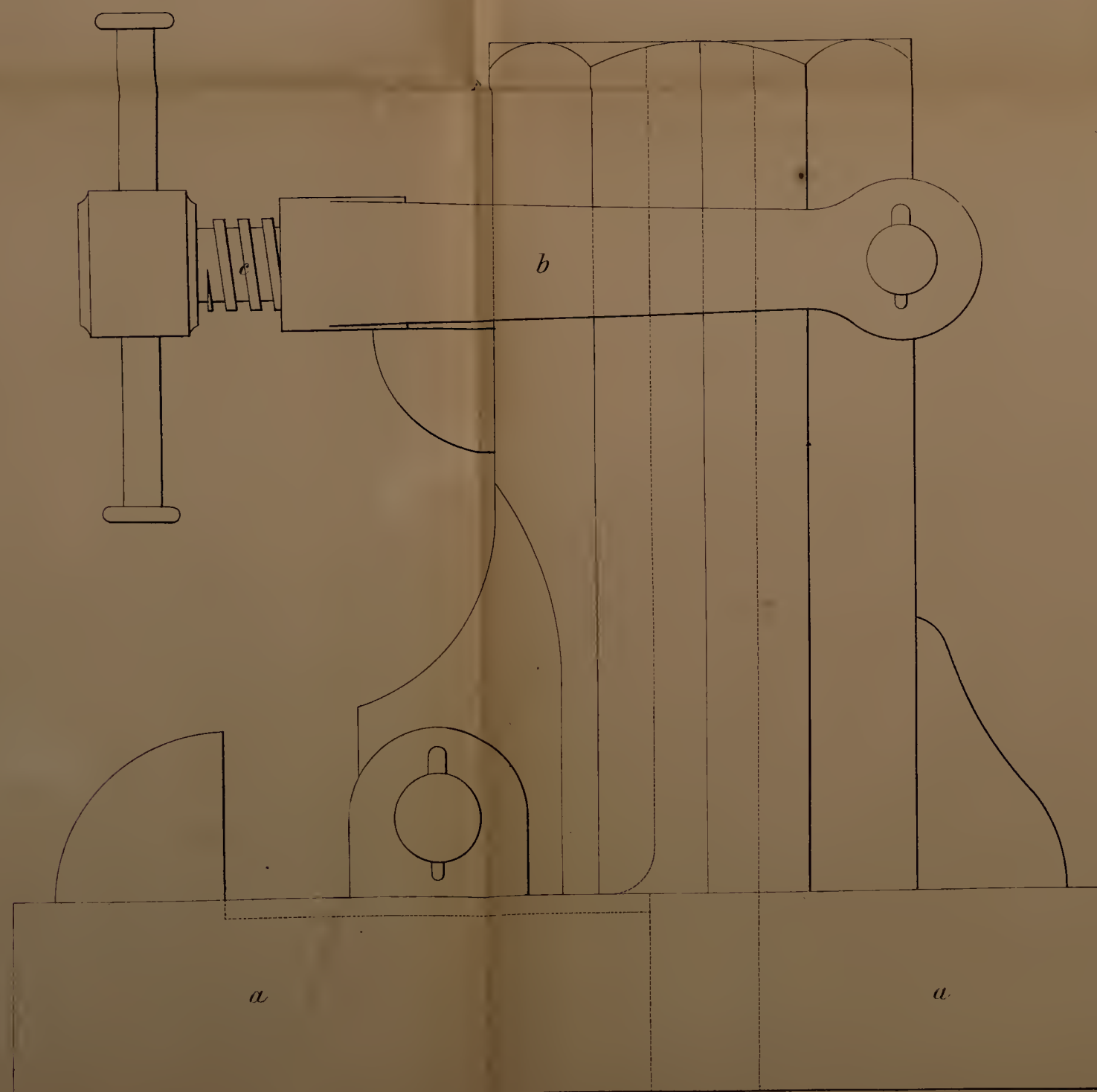


FIG. 3.

